

Remark

In the present application, as recited in Claim 30, a connection request is sent that includes the service name to indicate the appropriate service. Then a connection is initiated utilizing the service name. An example of an embodiment of Claim 30 is described in the specification as indicated below.

"The Bluetooth protocol typically uses virtual communications ports for purposes of communication between devices, but keeping track of which port corresponds to a given service on a given device may be difficult. (Page 4, lines 14-18)

"[K]eeping track of virtual communications ports assigned to specific services may be difficult. Additionally, such virtual communication port assignments may change over time for a variety of reasons, such as devices disengaging or engaging with the Bluetooth virtual bus or devices undergoing internal reconfiguration. (Page 4, lines 6-10)

"At block 330, a service connection request is received and the appropriate service is connected. Note that connecting the service implies receiving some form of request to connect to the appropriate service. In one embodiment, the name of the service may be used as part of the service request for purposes of locating the appropriate service. (Page 5, lines 6-10)

"At block 430, a service from the services available is selected for connection, and a connection is initiated with the service. Initiating such a connection may include sending a connection request and having the connection completed by whatever sent the response [to the SDP query]. In one embodiment, the connection request need not include the virtual communication port identifier from the service, but need only include the name of the service. For example, utilizing the illustration of Figure 2, the name 'Application XYZ COMPANY file transfer service' may be used to indicate the

appropriate service. This avoids the problem of discovering and maintaining current information about which virtual communications port is utilized by a given service. (Page 5, line 21-Page 6, line 6)

“Figure 2 illustrates an embodiment of a service record which may be provided by an advertising device. Each service record has a service record handle, such as ServiceRecord1 or ServiceRecord2 for example. Associated with each service record is a service class, which for each of these records is a virtual communications port. Also associated with each service record is a service name, which may be used to refer to the service. Thus, the service name rather the port may be used to connect to the service in question. (Page 4, line 19-Page 5, line 2)

“[S]ervice maintenance database block 510 can be used to maintain a database indicating which services are available and how to connect to the service (such as what name to use). (Page 6, line 22-Page 7, line1) By allowing for tracking of services by name rather than by virtual communication port, updating is kept to a minimum... (Page 7, lines 2-4)”


As is clear from these excerpts, in this example, there are two devices, requester/query sender and advertiser/query responder. Each device has a service maintenance database block 510 that it may refer to for sending queries 520 and for responding to queries 530. A first device sends the service request, with the service name and optionally the com port. The second device connects the service using the service name instead of the com port. This can be done based on the Figure 2 information. When the com port is determined by the second device that receives the request, then the connection may be made in the conventional fashion for Bluetooth.

Invitation for a Telephone Interview

The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Respectfully submitted,
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